



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.9713
Job Sheet 176445



Part No: 646.9713

Job Qty: 6 ea

Part Name: Body



Part Weight: 0 lbs

Job Created: 4/24/18

Due Date: 5/4/18

Type: AOG

Status: Scheduled

Job Tracking No:

Created By: Linda Lacelle

Description:

Priority: AOG

Note: DWG REV D2 SHEETS 1-4, 7 IPP Rev.A New issue JFS 16/03/08 Verify by: JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	6 Ea	5/4/18	5/4/18	0.00	0.00	Start Up Machining-1		
100	Bandsaw	6 pcs	5/4/18	5/4/18	0.00	1.03	Bandsaw1		
110	CNC Vertical Machining	6 pcs	5/4/18	5/4/18	0.60	8.82	HAAS1-1		
120	QC	6 pcs	5/4/18	5/4/18	0.00	0.00	QC2 Machining-1		
130	QC	6 pcs	5/4/18	5/4/18	0.00	0.00	QC8 Machining-1		
140	Outsource	6 pcs	5/4/18	5/4/18			ATG001-VC	5	
150	Packaging	6 pcs	5/4/18	5/4/18	0.00	0.00	Packaging2		
155	QC	6 pcs	5/4/18	5/4/18	0.00	0.00	QC5		
180	Packaging	6 pcs	5/4/18	5/4/18	0.00	0.00	Packaging3-1		
190	QC21-SA	6 Ea	5/4/18	5/4/18	0.00	0.00	QC21		

Part Op 100 - Cut Blank at 7.425"

Descriptions: 110 - 1-Machine per folio FB464

140 - Issue P/O to ATG : P6035781 Anodize, Color Black, Prime as per Dwg 646.9700

180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M7075T6S1.000X5.000	7075-T6 Sheet1" Thick Plate X 5" Wide	3.7200 ft (.62 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	M7075T6S1.000X5.000	4	17	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Body	0.487Inches $\pm$ 0.005	0.492 0.482		
2	Body	4.784Inches $\pm$ 0.002	4.786 4.782		
3	Body	3.603Inches $\pm$ 0.002	3.605 3.601		

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval																	
Description Work Order Deviation		Disposition		Completed By																	
				Lead hand / Supervisor Approval Verification																	
				QC / QA Coordinator Approval																	

Dart Aerospace Ltd.
1270 Aberdeen Street
Hewlettbury, ON K6A 1K7
CANADA
TEL.: 1 813 632 - 5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S067632

Part: 646.9713

Job No: 176445

Serial No/Batch: S067632

Revision: _____

Inspector: _____

Date: 05/02/18

ULT CATEGORY

☐ Power Loss/Surge	☐ Positioned Wrong
☐ Folio/Program	☐ Outside Dimensions
☐ Grain	☐ Over/Under tolerance
☐ Weld	☐ Part Incorrect
☐ Wrong Stock Pulled	☐ Part Lost/Missing
☐ Out of Sequence	☐ Part Moved
☐ Off-set	☐ Drawing
☐ Mislabeled	☐ Finish
☐ Fit/Function	☐ Misread
☐ Misaligned/off center	☐ Turning Sequence

misidentified ☐

Past Due ☐

OTHER : _____

4	Body	2.422Inches $\pm$ 0.002	2.424 2.420
5	Body	1.400Inches $\pm$ 0.002	1.402 1.398
6	Body	0.375Inches $\pm$ 0.002	0.377 0.373
7	Body	0.409Inches $\pm$ 0.002	0.411 0.407
8	Body	0.350Inches $\pm$ 0.005 - 0.000	0.355 0.350
9	Body	0.875Inches $\pm$ 0.005	0.880 0.870
10	Body	1.067Inches $\pm$ 0.002	1.069 1.065
11	Body	2.608Inches $\pm$ 0.002	2.610 2.606
12	Body	2.750Inches $\pm$ 0.002	2.752 2.748
13	Body	2.892Inches $\pm$ 0.002	2.894 2.890
14	Body	3.348Inches $\pm$ 0.002	3.350 3.346
15	Body	3.597Inches $\pm$ 0.002	3.599 3.595
16	Body	3.847Inches $\pm$ 0.002	3.849 3.845
17	Body	0.544Inches $\pm$ 0.002	0.546 0.542
18	Body	2.195Inches $\pm$ 0.002	2.197 2.193
19	Body	3.395Inches $\pm$ 0.002	3.397 3.393
20	Body	3.495Inches $\pm$ 0.002	3.497 3.493
21	Body	4.595Inches $\pm$ 0.002	4.597 4.593
22	Body	4.687Inches $\pm$ 0.002	4.689 4.685
23	Body	4.734Inches $\pm$ 0.002	4.736 4.732
24	Body	0.177Inches $\pm$ 0.005 - 0.001	0.182 0.176
25	Body	0.201Inches $\pm$ 0.005 - 0.001	0.206 0.200
26	Body	0.130Inches $\pm$ 0.010	0.140 0.120
27	Body	45.0Angle $\pm$ 0.5	45.5 44.5
28	Body	1.5Angle $\pm$ 0.0	1.5 1.5
29	Body	0.660Inches $\pm$ 0.005	0.665 0.655
30	Body	0.660Inches $\pm$ 0.005	0.665 0.655
31	Body	0.700Inches $\pm$ 0.005	0.705 0.695
32	Body	5.500Inches $\pm$ 0.005	5.505 5.495
33	Body	6.8Angle $\pm$ 0.5	7.3 6.3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO039781

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO039781
PO Date: 5/2/18
Due Date: 5/4/18
**Purchase Order
Revision:**
Revision Date:
Ship-To Contact: Phone:

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	175554	644.4120	Spacer, Crosstube 1-ISSUE P/O TO ATG: _____ 2-Anodize Black -MPP-172 Section 2.1 -Hard Anodize IAW Mil-A-8625 Type 3 Class 2 3-Certification of Conformity is required	Firmed	5/4/18	10 pcs	0 pcs	10 pcs	\$8.38/pcs	\$83.80
2	175560	644.4122	EC145 Fwd Crosstube Bushings 1-ISSUE P/O TO ATG: _____ 2-Anodize Black -MPP-172 Section 2.1 -Hard Anodize IAW Mil-A-8625 Type 3 Class 2 3-Certification of Conformity is required	Firmed	5/4/18	10 pcs	0 pcs	10 pcs	\$8.38/pcs	\$83.80
3	175561	644.4123	EC145 Fwd Crosstube Bushing 1-ISSUE P/O TO ATG: _____ 2-Anodize Black -MPP-172 Section 2.1 -Hard Anodize IAW Mil-A-8625 Type 3 Class 2 3-Certification of Conformity is required	Firmed	5/4/18	10 pcs	0 pcs	10 pcs	\$8.38/pcs	\$83.80

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	176445	646.9713	Body Issue P/O to ATG : _____ Anodize, Color Black, Prime as per Dwg 646.9700	Firmed	5/4/18	6 pcs	0 pcs <i>6x</i>	6 pcs	\$17.93/pcs <i>APR 18/05/07</i>	\$107.58
5	176685	649.4811	Clip Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required	Firmed	5/4/18	10 pcs	0 pcs	10 pcs	\$13.03/pcs	\$130.30
6	176854	SWA10A-700A	Wire Clamp -Issue P/O to ATG: _____ -HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625F TYPE 3 CLASS 2 -Certificate of Conformity is required	Firmed	5/4/18	5 pcs	0 pcs	5 pcs	\$9.18/pcs	\$45.90
Grand Total:										\$535.18
Order Notes										
Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A022 Apical Processing A024 process certifications A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents A048 counterfeit parts avoidance, detection, mitigation and disposition program A049 supplier awareness Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.										

Plex 5/7/18 7:06 AM dart.tsimiklis.chrisoula



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 915089

Date: 04-May-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
16 ea	Part: 649.4820 Shim Job: 22993 Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing.		
	PO: PO039759		Rev: E Line: 5
20 ea	Part: 649.4819 Shim Job: 22996 Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing.		
	PO: PO039759		Rev: E Line: 8
6 ea	Part: 646.9713 Body Job: 22986 Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377 TYPE I CLASS N 1-2 mils		
	PO: PO039781		Rev: D Line: 4
10 ea	Part: 649.4811 Clip Job: 22987 Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing.		
	PO: PO039781		Rev: E Line: 5
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>4/5/18</u> Certified Signature: <u>[Signature]</u> Made in Canada.			



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 915089

Date: 04-May-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chrisoula Tsimiklis
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via
		OUR TRUCK
Quantity	Description	
	Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.	
Made in Canada.		